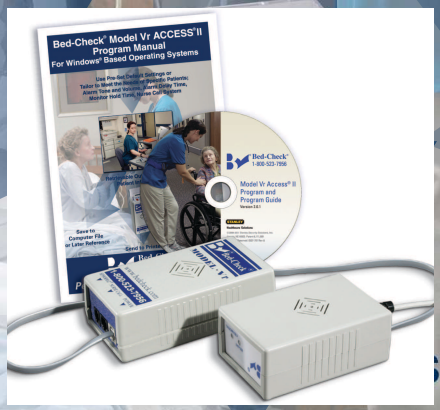
Bed-Check® Model Vr ACCESS®II Program Manual

For Windows® Based Operating Systems

Use Pre-Set Default Settings or Tailor to Meet the Needs of Specific Patients; Alarm Tone and Volume, Alarm Delay Time, Monitor Hold Time, Nurse Call System

Retrievable Outcome-Based Patient Information



Save to Computer File for Later Reference

Export to Wordprocessing or Spreadsheet,Database Programs

Send to Printer

0163-464-B

Bed-Check®

Reducing the Risk of Falls Through Innovative Technology Since 1978

People, Products and Education

BED-CHECK® MODEL Vr ACCESS® II
For WINDOWS® Based Operating Systems

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⚠WARNING

Read and follow these Installation instructions, particularly the warnings and cautions, before using your Bed-Check® USB Interface unit.

Use your Model Vr Control Unit in conjunction with your facility's fall management program. Bed-Check® Model Vr units are not a substitute for proper nursing care. The effectiveness of the Bed-Check® system relies entirely on an immediate response by the caregiver to the alarm.

The Bed-Check® Model Vr unit will not stop a person from leaving a bed, chair, wheelchair or room. It is intended only to alert a caregiver that a person may need assistance. Other interventions may still be required for some people.

The Bed-Check® Model Vr unit and Bed-Check® Sensormat® can be defeated by a cognitively aware person, a person with only a few moments of lucidity or an uncooperative person. Properly assess each individual before the Bed-Check® Model Vr unit is used.

Visual monitoring by caregivers is required. Bed-Check® Sensormats® may not be suitable for all high risk persons; restraints may be required for some people.

Test your Sensormats® and Model Vr unit before each use. Make sure your Model Vr unit is working properly. If the Sensormats® are no longer working discard them immediately.

⚠WARNING

Do not open the Bed-Check® Model Vr unit case or Vr/USB case for any reason, or remove the screws that hold the cases together. Each case is sealed and if the seal is broken, the warranty will be voided.

Use only the supplied Bed-Check® power supply that is shipped with the Control Unit. Failure to do so may cause improper operation or damage to the Control Unit.

Equipment Installation and Description

Set up:

1. Install the Vr Access® II software program onto the computer.
2. Plug in the battery charger into the receptacle on the side of the Vr/USB interface box and into an available 110 V electrical outlet.
3. Plug the USB cable into an available USB port on the computer. If there are no extra ports on the computer, the end user must purchase a USB hub for additional ports.
4. Connect the data transfer cable to the receptacle in the Vr/USB interface box and to the POWER receptacle in the Model Vr.

Using the Vr Access® II program:

5. Click "*Read Device Settings*" to connect the computer to the Model Vr.
6. Program the control unit or store the data for later printing of reports as desired.

For more information on programming the Model Vr refer to the section of this manual entitled "Programming the Control Unit" on page 10.

Status Light Functions:

The Vr/USB interface box uses two rechargeable 9V batteries. When they are charging, the yellow 'CHARGING' light on the front panel of the box will flash. When the battery power reaches a usable threshold, the green 'READY' light will begin to flash indicating that the interface box is ready to operate. When unplugged from the charger, and not connected to the Model Vr both status lights will be off.

The green 'READY' light on the front panel of the box will flash when it is connected to the Model Vr assuming there is sufficient battery power for proper operation. During use, the battery power will drop and when it reaches a certain threshold, the interface box will begin emitting a 'chirping' sound (similar to a smoke detector) every few seconds. When this occurs, recharge the batteries as soon as possible. If the batteries are not recharged soon enough, the Vr/USB will turn itself off to protect the batteries. At that time, the green 'READY' light will turn off.

NOTE: The Vr/USB interface is intended to operate both the interface and the Model Vr mobile. **Daily recharging** of the batteries is recommended when the device is used daily and **Weekly recharging** when the device is not in use. Occasional use of the interface while the batteries are charging is also acceptable.

⚠WARNING

Do not attempt to remove the rechargeable batteries from the Vr/USB Interface box. Only the Vr/USB charger should be used to charge the batteries. Opening the unit will break the seal and void the warranty.

INTRODUCTION

The Bed-Check® Model Vr Access® II program will enable you to program the Model Vr Control Unit's operating characteristics and print or export the Control Unit's outcome-based statistics. The outcome-based statistics may be sent to your local or network printer, exported to a text file, or exported to a computer file for importing into a spreadsheet program.

Three indicators (lights) on the face of the Control Unit depict the operational status of the unit at any moment. The yellow indicator, if solid, reflects a stand-by **HOLD** status, and if blinking, reflects a temporary (interim) **HOLD** status. The green indicator reflects a **MON**itoring status, and a red indicator reflects an **ALARM** status.

Programmable Operating Characteristics

- Limit the external ability to set the Alarm Delay time in seconds to a range of 1 to 3 seconds versus a normal range of 1 to 9 seconds.
- Input Patient ID.
- Enable or disable the Audible Reset Alarm.
- Identify whether the nurse call system is normally open or closed.
- Select the Tone Option of the alarm sound.
- Select the Relay Action - type of electrical impulse needed by the nurse call system.
- Select the Hold Time in seconds before MONitoring begins, from 1 to 20 seconds.
- Set the Alarm Delay time in seconds, from 1 to 9 seconds.
- Adjust the volume of the alarm.
- Define the Control Unit's operating Default settings for all of the above.
- Input the last Bio-Med Date of service.

Printable Outcome-Based Information

Unit Information

- All of the previously mentioned operating characteristics.
- Unit serial number and manufactured date.
- Total cumulative time the unit has been in operational service.
- Date of the last Repair/Maintenance Authorization (RMA) and number by Bed-Check®.
- The last date the control unit was serviced by Bio-Med.

Patient's Information

- Patient's ID.
- Cumulative time the unit has been in service with the particular patient.
- The response times for the last twenty-four alarms.
- The average response time for the last four alarms.
- The last response time.
- Time and date of the last twenty-four alarms.

Exportable Outcome-Based Information of Last 24 Alarms for Database/ Spreadsheet Analysis:

- The exported file name will default to the patient ID.
- Date of each alarm.
- Time of each alarm.
- Response time to each alarm.

Reset Information

- Reset the patient information to erase all.

EQUIPMENT DESCRIPTION

A Vr/USB interface box and USB cable, data transfer cable, battery charger and software are supplied in the Model Vr system package.

INSTALLATION INSTRUCTIONS

PROGRAM INSTALLATION

Minimum System Requirements: Windows® 98.

Before beginning the installation process be sure to close all program applications.

1. Uninstall previous version of Bed-Check® Access® Software. For detailed instructions refer to Appendix C.

2. Install Bed-Check® Access® II as follows:
   a. Insert CD into CD-ROM drive. Set up program will appear.

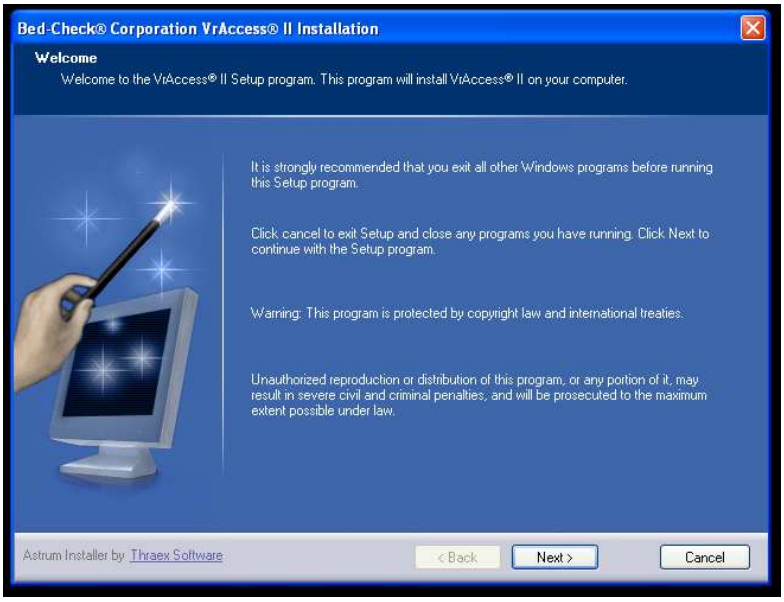
Bed-Check® Corporation VrAccess® II Installation
Welcome
Welcome to the VrAccess® II Setup program. This program will install VrAccess® II on your computer.
It is strongly recommended that you exit all other Windows programs before running this Setup program.
Click cancel to exit Setup and close any programs you have running. Click Next to continue with the Setup program.
Warning: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Astrum Installer by Thraex Software
< Back
Next >
Cancel

Figure 1

Click on **NEXT**.

The following screen will appear. If there is an alternate directory in which you would like the program files to be saved click the **BROWSE** button and select the desired directory folder. Otherwise, click **NEXT**.

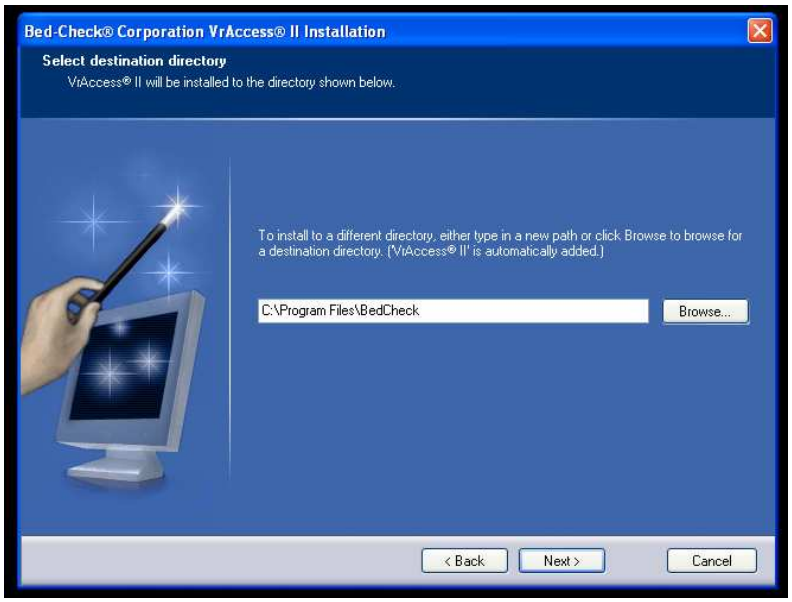
Bed-Check® Corporation VrAccess® II Installation
Select destination directory
VrAccess® II will be installed to the directory shown below.
To install to a different directory, either type in a new path or click Browse to browse for a destination directory. ('VrAccess® II' is automatically added.)
C:\Program Files\BedCheck
Browse...
< Back
Next >
Cancel

Figure 2

Click **NEXT**.

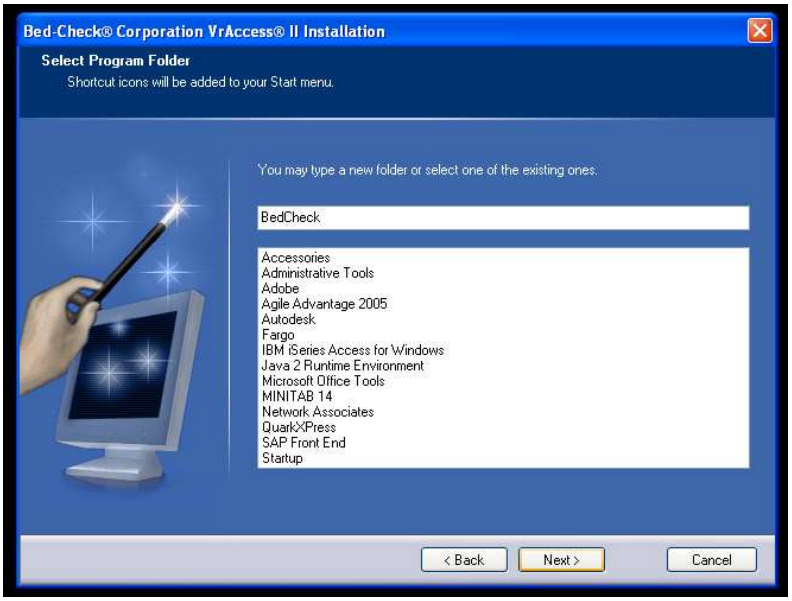

Figure 3

Click **NEXT**.

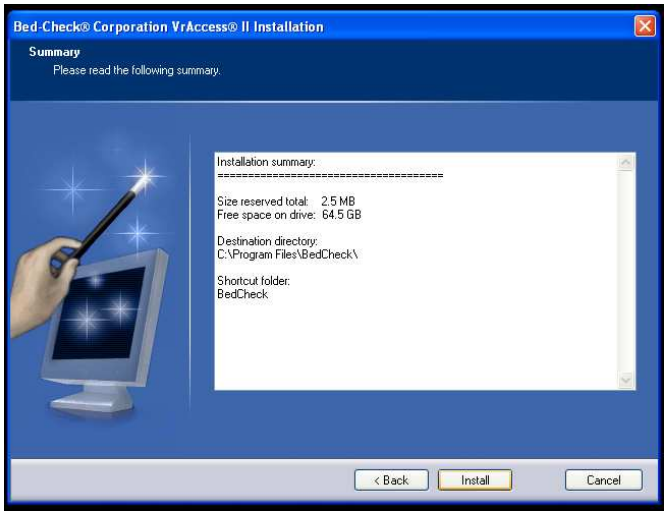

Figure 4

Click **INSTALL**.

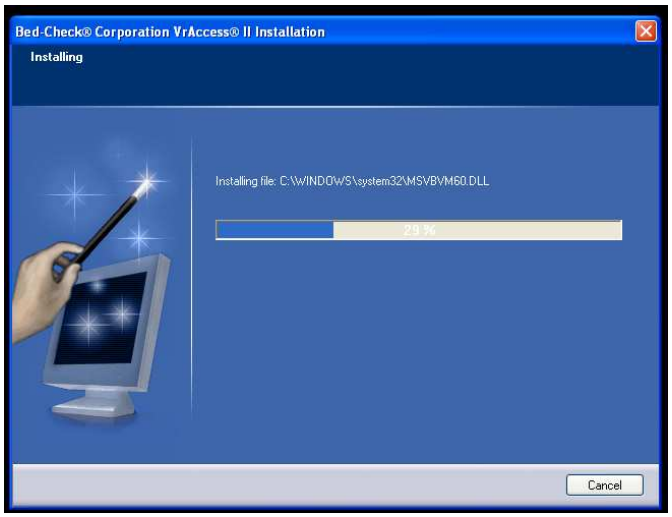

Figure 5

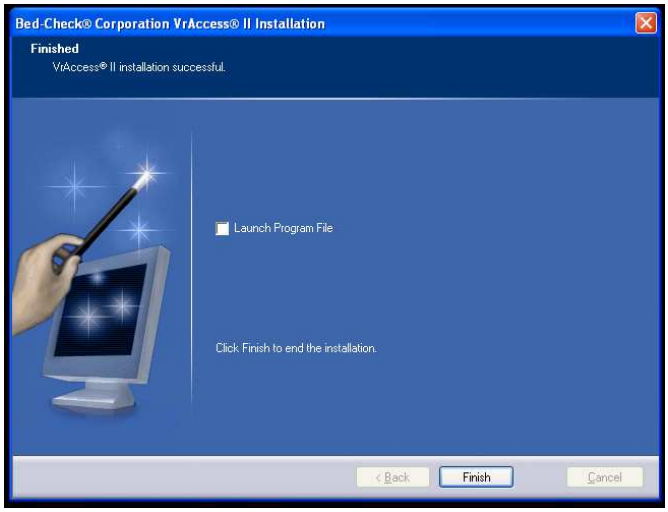

Figure 6

Installation is complete and the program is ready to use. Click **FINISH** to exit setup.

PROGRAM START

To begin the program, click on the **Windows® START** button at the lower left hand corner of the **Windows®** desktop screen. Click the **PROGRAMS** option of the **START** screen and look for the Bed-Check® icon. Click on the Bed-Check® icon. The following

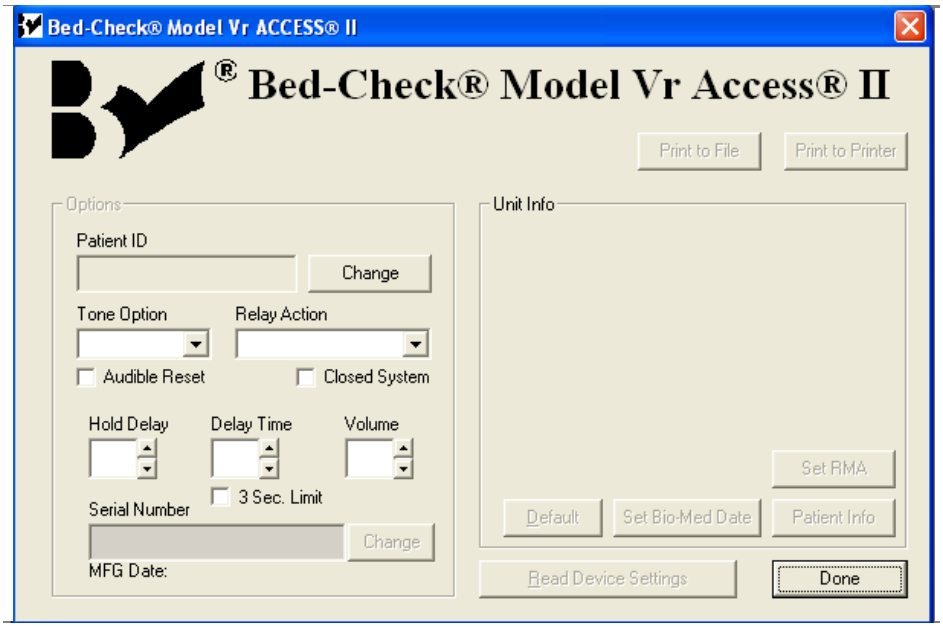

Figure 7

screen will appear:

Note: For ease of operation, we recommend the user create a shortcut to the desktop for this program.

Click on **READ DEVICE SETTINGS**. The ACCESS® II program is communicating with the Control Unit and will retrieve its various settings, unit data and patient data. This will generally take 15 seconds. Upon completion of the data transfer, the following input/information screen will appear:

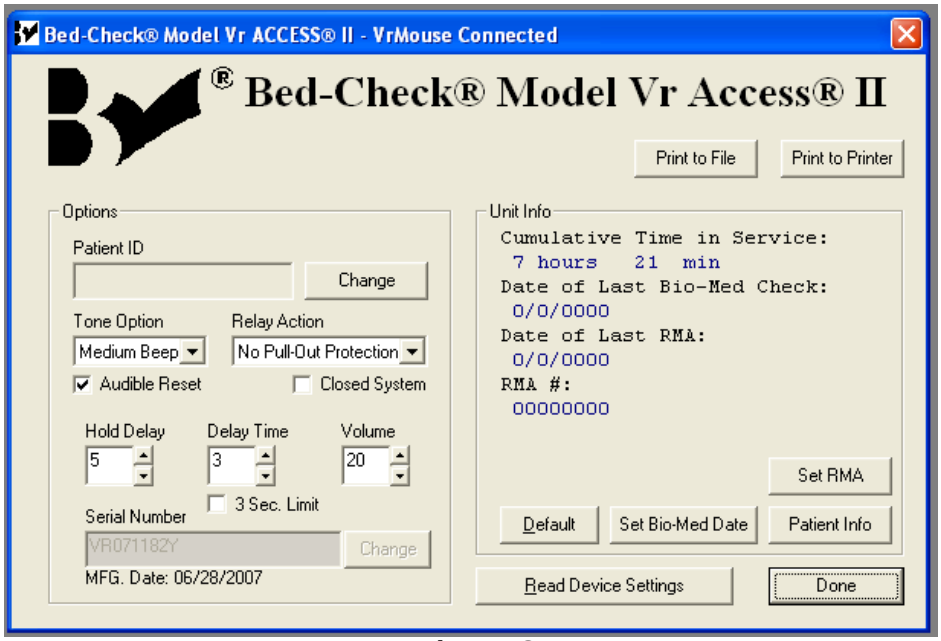

Figure 8

PROGRAMMING THE CONTROL UNIT

OPTIONS

PATIENT ID. The **Patient ID** is an optional data entry. The Control Unit may be identified with a particular patient during its use with that patient. The **Patient ID** will be reflected on printed outcome-based information and used as the default file name for the text file and exported information. The **Patient ID** should be changed with each subsequent patient. click the change button to enter or change the **Patient ID.**

You may erase all patient data by clicking **Reset Info** on the patient screen, please review **Reset Info.** Patient information cannot be retrieved after it has been reset (cleared).

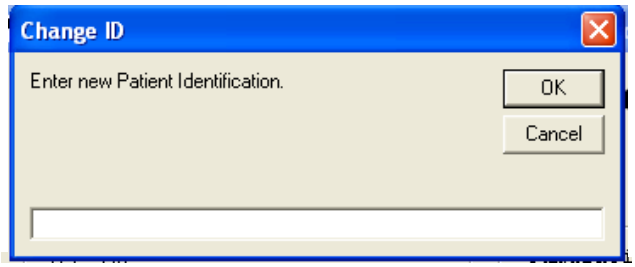

Figure 9

TONE OPTION. The **Tone Option** provides various distinctive tones. Pick a tone which does not conflict (sound the same as) with any other medical devices in the patient's room which incorporate local alarms. You may also assign a particular tone to high risk patients and a different tone to low risk patients. You may assign particular tones to different floors or wings of the same floor of the facility. You may frequently change the alarm tones to avoid becoming de-sensitized due to listening to the same alarm tone over extended periods of time. Click on the down arrow to select the particular tone of choice. The tone options are shown in **Figure 10**.

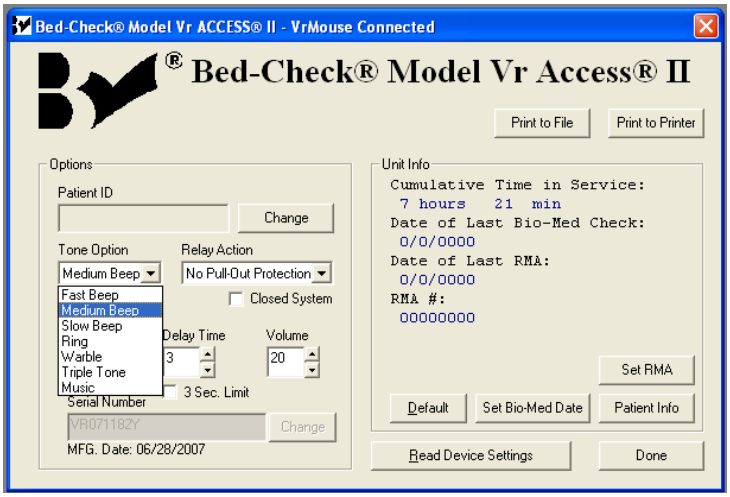

Figure 10

RELAY ACTION. The **Relay Action** refers to the electrical impulse that is sent to your nurse call system by the Control Unit. You may select from three types of impulses. You may also turn off the alarm impulse to the nurse call system by selecting **"No Pull-Out Protection"** and operate the unit independently of the nurse call system (not recommended).

The Model Vr Control Unit is programmed to recognize whether the nurse call cord is plugged into the unit during operation.

Note: 'Pull-Out Protection' is the normal operational mode in the Model Vr in all Relay Action selections ***except*** when the '*No Pull Out Protection*' option is selected. When 'Pull Out Protection' is operational, the Model Vr will emit an alarm tone if weight is placed on the Sensormat® and the nurse call cord is not plugged into the call system.

If the '*No Pull-Out Protection'* is selected, the nurse call cord will not be operational and will not need to be plugged into the call system.

Click the down arrow ▼ button to select the nurse call system's required response. The available **Relay Action** selections are displayed in **Figure 11**.

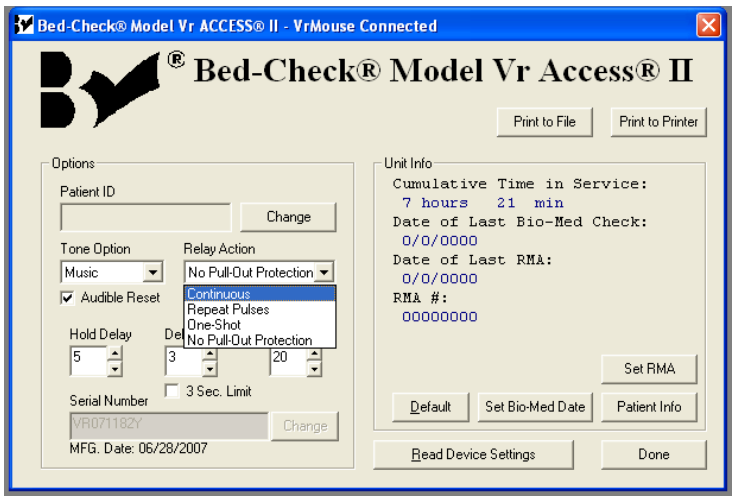

Figure 11

Continuous is the default selection.

AUDIBLE RESET. The Control Unit emits three rapid beeps when the **RESET** button is pressed during active monitoring (Control Unit is in **MON**itoring status and weight is on the Sensormat®). The volume level of the reset alarm is the same as the **Volume** level set for the Control Unit (see below). To turn on the **Audible Reset** alarm click on the box next to the words **"Audible Reset"** in the Windows® screen. A ✓ will appear.

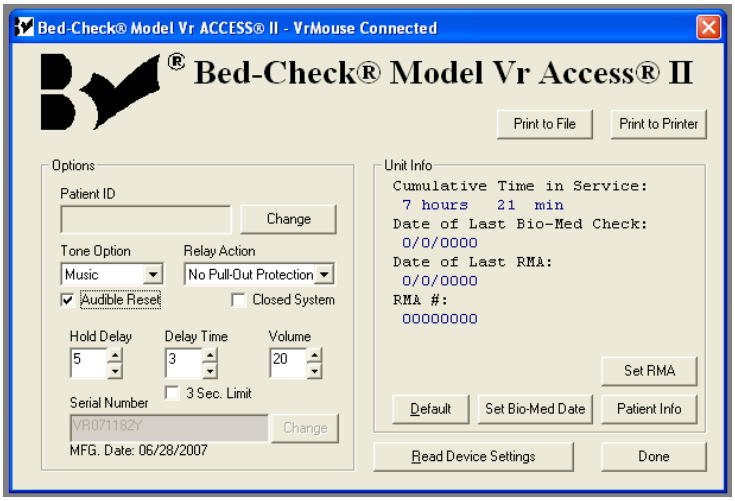

Figure 12

CLOSED SYSTEM. Nurse call systems may be normally open or normally closed systems (the systems relay action). The majority of the systems are normally open. The Model Vr Control Unit is preset to function with normally open systems. Click on the box next to the words **"Closed System"** if your system is normally closed. A ✓ will appear in the box indicating that the Control Unit will operate with a normally closed system.

Note: If you are unsure of the relay action on your system, ask whoever maintains your system.

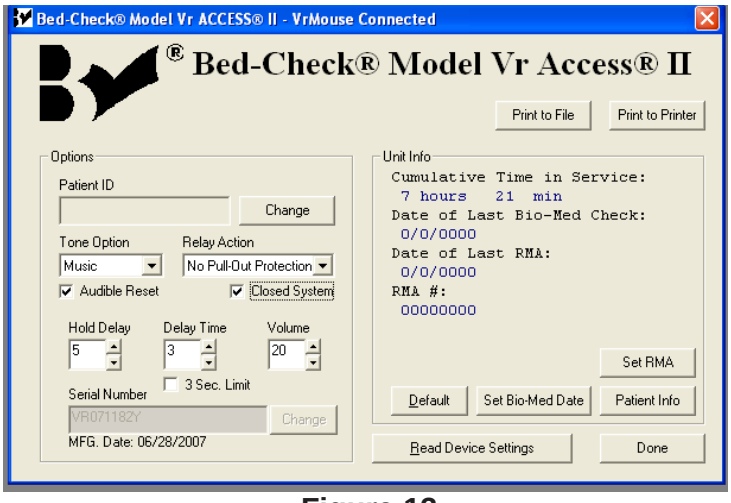

Figure 13

HOLD DELAY. The **Hold Delay** relates to the time, in seconds, which elapses from the moment the Control Unit senses weight on the Sensormat® until the Control Unit begins to monitor. The range of time which may be selected is from 1 second to 20 seconds. We recommend that the Control Unit be set to not more than 5 seconds (the normal factory setting). Click the up arrow ▲ button to select the **Hold Delay** in seconds.

There is a separate and distinct nested hold time programmed into the Control Unit. If weight (patient remains in a bed or chair on the mat) is on the Sensormat® and the Control Unit is **MON**itoring, the care giver may press the **RESET** button on the face of the Control Unit and place the unit in **HOLD** (light blinking/waiting) status. The unit will remain in a temporary (interim) **HOLD** status for 25 seconds. After 25 seconds the Control Unit will again begin to monitor. During this **HOLD** (waiting) period the patient may be removed from the bed (weight is off the Sensormat®) and the unit will begin a continuous **HOLD** (solid light) status until the patient is returned to the bed.

Upon the return of patient's weight to the Sensormat®, the Control Unit will begin monitoring after the user's preset **Hold Delay** has elapsed, e.g. 5 seconds. The nested 25 second hold delay may not be changed.

The care giver may adjust the patient/resident in bed, do local therapy, etc. during the (25 second) temporary **HOLD** period without setting off the alarm. If the Control Unit begins to again monitor and it is taking longer to care for or remove the patient/resident from the bed, press **RESET** again to renew the 25 second temporary **HOLD** time. If the care giver has completed the task and the control unit is still in the temporary (blinking) **HOLD** status, the caregiver should press **RESET** to immediately begin **MON**itoring **before leaving the room**.

DELAY TIME. The **Delay Time** relates to the time in seconds which elapses from the moment the Control Unit senses that weight has been removed from the Sensormat® to the moment when an alarm is emitted locally and through the nurse call system. We recommend that the **Delay Time** be set at 3 seconds. Click the up arrow ▲ button to select the **Delay Time**.

VOLUME. The **Volume** of the local alarm emitted by the Control Unit may be adjusted from no audible alarm (0 setting) to 85 decibels (31 setting). The mental and physical state of the patient/resident and the distance of the alarm from healthcare personnel should be considered when setting the **Volume** level. Click the up arrow ▲ button to select the **Volume** level.

3 SECOND LIMIT. The **Delay Time**, as discussed above, may be set within a range of 1 to 9 seconds. This **Delay Time** may be externally cycled/changed by pressing the up arrow ▲ on the face of the Control Unit. You may limit the ability to cycle the alarm **Delay Time** from the normal 1 to 9 seconds to a limited 1 to 3 seconds. Click on the box next to the words **"3 Sec Limit"**. A ✓ will appear in the box indicating the limit is effective.

Note: If the "**3 Sec Limit**"box is selected the Vr unit cannot be programmed from the front panel until this is reset.

DEFAULT SETTINGS. The Bed-Check® factory default settings are Medium Beep for the **Tone Option**, continuous for the **Relay Action, 3 Second Limit** is set to OFF, **Audible Reset** is set to ON, the **Closed System** is set to OFF (Control Unit will function with a normally open nurse call system), a five (5) second **Hold Delay**, a three (3) second alarm **Delay Time**, and the **Volume** is set to twenty (20). Click the **Default** button to reset all options to the factory settings. You may also set your own default settings. **To change/set the Default settings, click File in the upper left hand corner of the screen - click on Change Defaults. Thereafter, clicking the Default button will return the Control Unit to your preset default settings (see the screen below).**

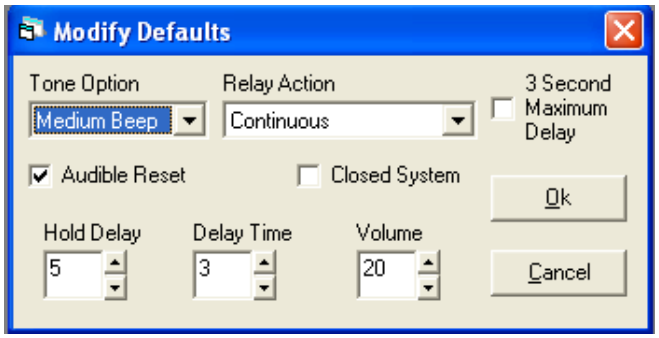

Figure 14

CONTROL UNIT INFORMATION

Click the **PRINT TO PRINTER** button to send the information on this screen, or any screen, to the printer. The Windows® print pop-up screen will appear. Follow the instructions as to number of copies to print and selection of the printer.

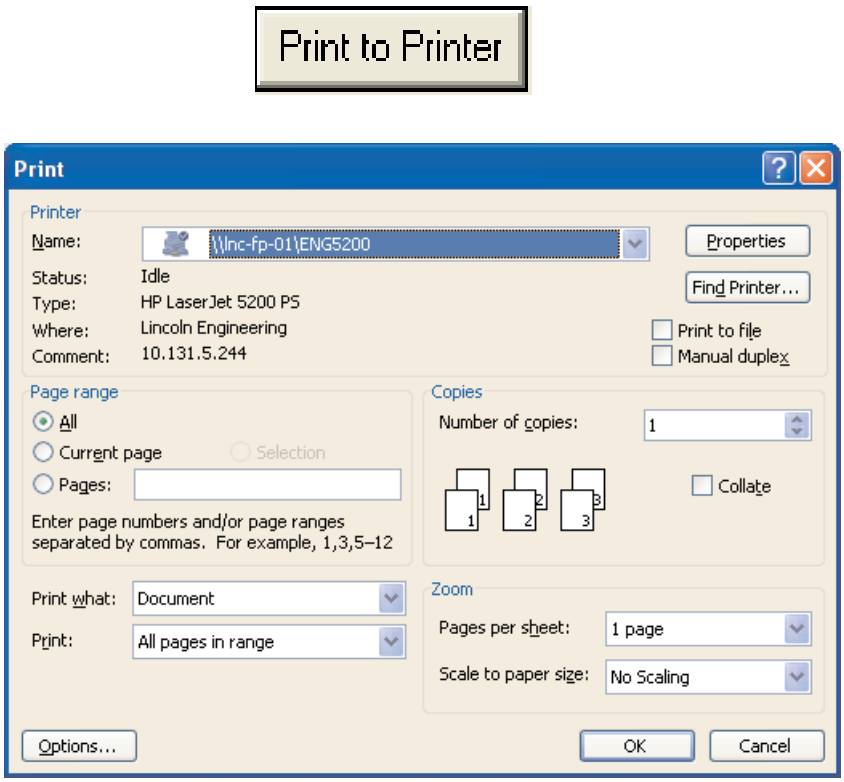

Figure 15

Click the **PRINT TO FILE** button to send the screen, or any screen, information to a text file. The Windows® Save As pop-up screen will appear. You may direct the file to any directory on your computer. The default name for the text file will be the **Patient ID**.

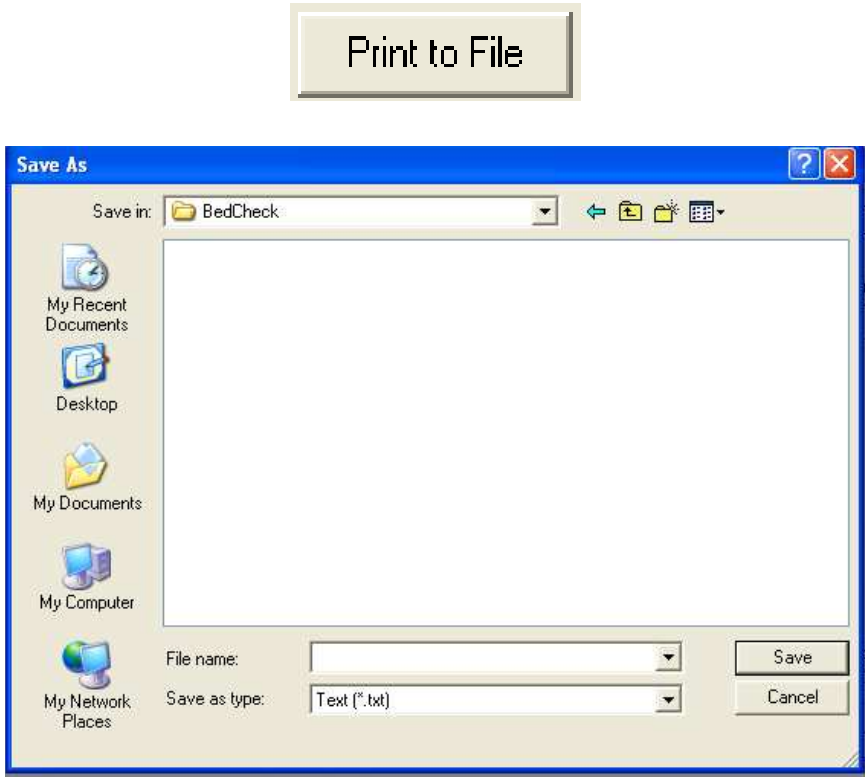

Figure 16

CUMULATIVE TIME IN SERVICE. The Model Vr accumulates the total time that the Control Unit has been in operational use. The time in service cannot be reset.

DATE OF LAST BIO-MED CHECK. This is an optional entry. Bio-med may click the **Set Bio-Med Date** button and accept the computer's current system date as the reference date for the functional check of the Control Unit by that department. This date may be changed to any subsequent date.

Figure 17

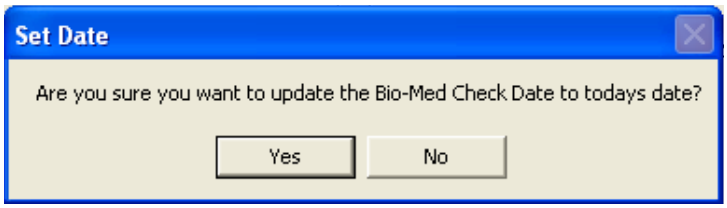

Figure 18

PATIENT INFORMATION. Click the **Patient Info** button to leave the **Unit Info** screen and move to the **Patient Info** screen.

Figure 19

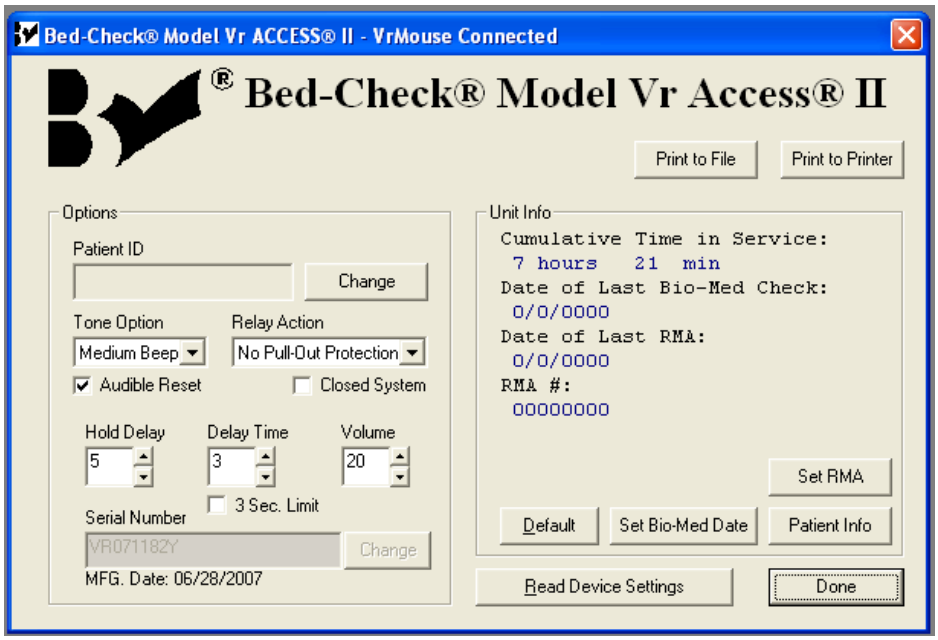

Figure 20

READ DEVICE SETTINGS. Click this button to seize control and communicate with the Model Vr Control Unit. Any settings previously made to the Control Unit will be reflected on the screen.

DONE. To exit the program click **DONE**.

PATIENT INFORMATION

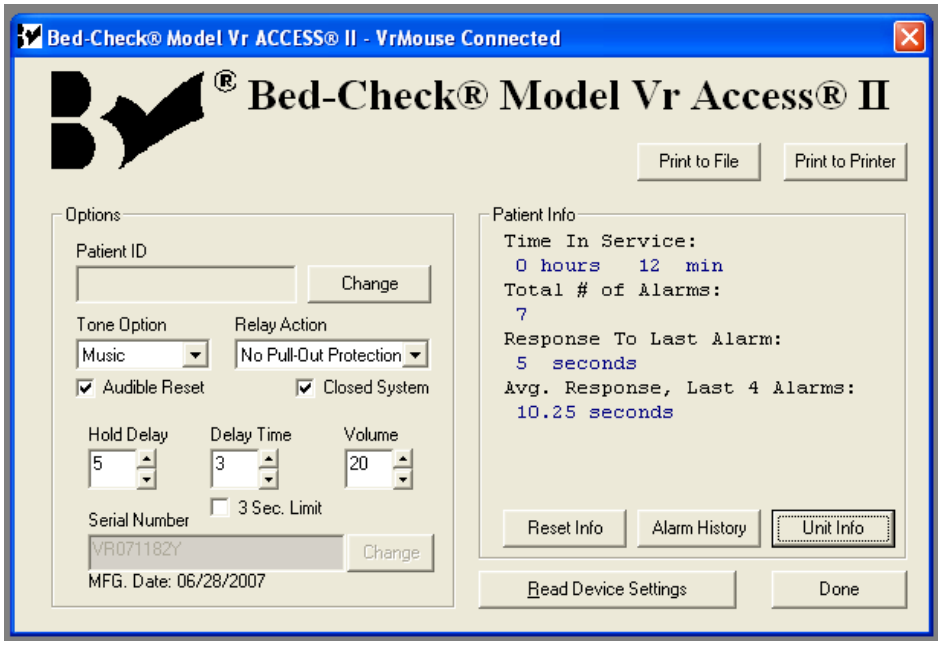

Figure 21

Click the **Print to Printer** or **Print to File** button to send all patient information on this screen and **Alarm History** to the printer or text file. The applicable Windows® pop-up screen will appear. Direct the information to the appropriate printer or location of the text file to the appropriate directory in your computer.

PATIENT ID. The **Patient ID** is an optional data entry. The Control Unit may be identified with a particular patient during its use with that patient. The **Patient ID** should be changed upon its use with each subsequent patient. Click the **Change** button to enter or change the **Patient ID**. Please also refer to the printed report examples at Appendix D.

TOTAL TIME IN SERVICE. The Model Vr accumulates the total time that the Control Unit has been in service with a particular patient. The information contained in the Patient Info screen and the Alarm History can be erased by clicking the Reset Info button (refer to the reset function explanation).

RESPONSE TO THE LAST ALARM. The staff response time to the last alarm in minutes and seconds is reported here. The response time is also recorded in the Alarm History which is reported on the subsequent screen (see the Alarm History).

AVERAGE RESPONSE, LAST 4 ALARMS. The Control Unit accumulates the most recent twenty-four alarms and response times thereto. The most recent four alarm response times are averaged and reported here.

RESET INFORMATION. Click the **Reset Info** button to clear or erase all patient information. You should consider printing a hard copy of this information or exporting the alarm history data to a file for importing to a database and utilizing the same for staff education and fall prevention/risk management programs. You should also consider maintaining this information in the patient's file for support of your efforts in maintaining a quality fall prevention program and ensuring the patient's well-being. The information is also helpful for staffing needs and support for a physician's prescription if positioning equipment or restraints are needed for the patient's/resident's health or recovery process, but subject to federal (e.g. HIPPA) and state regulatory requirements.

ALARM HISTORY. The Control Unit will maintain the date and time of alarms and staff response times to the last twenty-four alarms. Click on the **Alarm History** button to review the history screen. (See **Alarm History** screens on next page.)

There are two alarm history screens depicting the most recent twenty-four alarms, each screen depicting twelve alarms. Click the **Next** and **Prev** buttons to move between the two screens. You may **Export** the alarm date and time statistics and the response times to a comma delimited file for importation into a database program, (i.e. Dbase, Lotus, Excel). The exported file name defaults to the **Patient ID**. You may rename the file if desired.

Click the **Unit Info** button to return to the unit information screen. Click **Read Device Settings** to read/verify current settings, or click **Done** to leave the program.

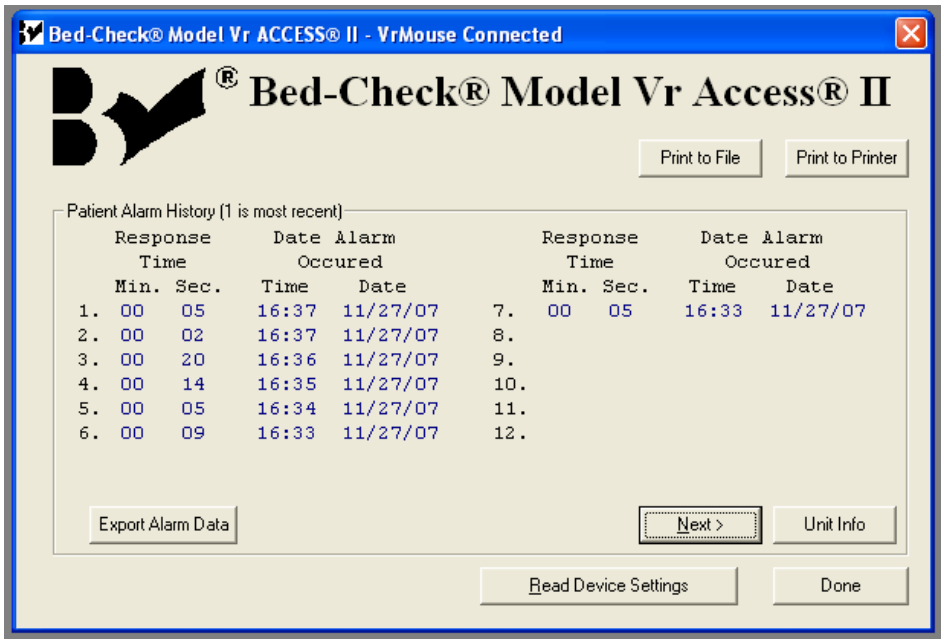

Figure 22

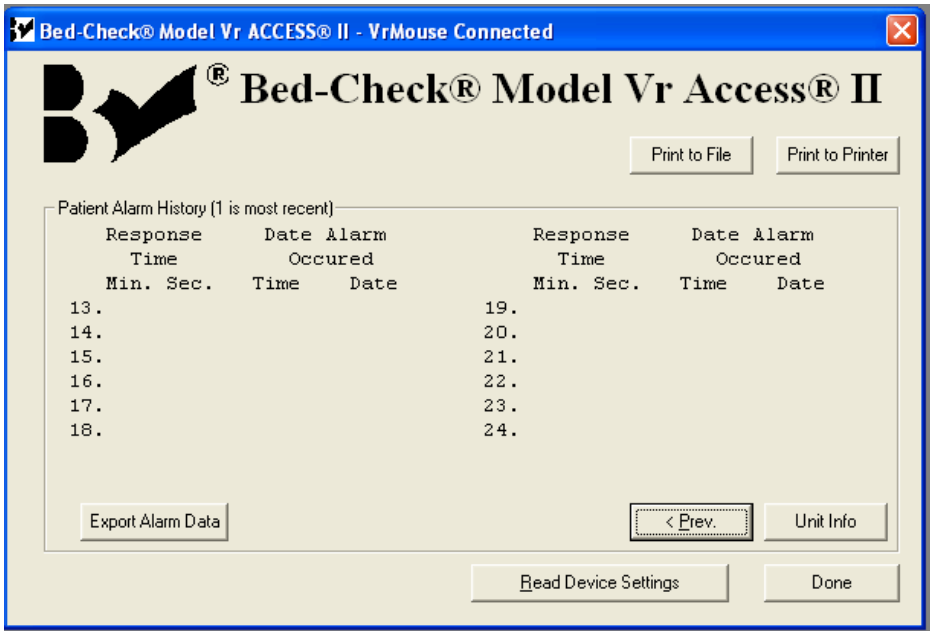

Figure 23

TROUBLESHOOTING

If the USB interface box is not responding

Make sure the charger is securely plugged into both the interface box and the outlet. If the cable is unplugged the batteries may need charged.

If there is no response after the unit has been plugged in and you have again clicked “Read Device Settings” the Vr Control Unit may be damaged or malfunctioning. Call 800-523-7956 for Stanley Security Solutions Technical Service.

Check to make sure the computer has not frozen. If the program or computer freezes manually restart the program.

If having continued failtures to read, try applying the charging cable while communicating.

If a static charge disrupts the program

Click the “Reset Info” button to attempt to clear the Vr unit to revert back to previous settings.

Refer to the *Status Light Function* section on page 2 for additional insight into the operational status of the product should a problem occur.

APPENDIX A - BIO-MED MODEL Vr UNIT TEST PROCEDURE

Program Tests / Function Checks

1. Plug Nurse Call and Mat Cords into Unit Receptacles.
2. Start "ACCESS® II" program.
3. Connect Vr to Power/Data cable.
4. Click on "Read Device Settings".
5. Click "Default", make sure Tone Option, Relay Action, 3 Second Limit, Audible Reset, Closed System, Hold Delay, Delay Time, and Volume settings are set to Medium Beep, Continuous, off(blank), off(blank), 5 seconds, 3 seconds, and 20, respectively. (You may have configured your own default settings, the settings delineated here are factory settings.)
6. Click "Change" to enter the patient ID. Confirm that entry is correct.
7. Click "Set Bio-Med Date".
8. Click "Yes" to set date. Date should be the current date.
9. Click "Done".

Manual Test Unit

Note: A functioning Sensormat® must be plugged into the Control Unit to perform a manual test.

1. Press the ▲ arrow on the face of the unit to cycle "Seconds" indicator 1 through 9.

2. Press the ▲ arrow until "Seconds" indicates 3.

3. Test function of the Hold Delay and alarm Delay Time.
   - Apply pressure to the Sensormat®. The **HOLD** light should immediately begin blinking.
   - Count for 5 seconds. The indicator light will change from blinking **HOLD** to **MON**itor.
   - Release pressure from the mat.
   - Count for 3 seconds. The indicator will change from **MON**itor to **ALARM** and alarm will sound.
   - Press **RESET**. Unit's indicator should change to solid **HOLD**.

4. Test function for immediate monitoring.
   - Apply pressure to the Sensormat®. The **HOLD** light should immediately begin blinking.
   - Press **RESET** during the blinking hold. Indicator should change from blinking **HOLD** to **MON**itor for instant monitoring (do not release pressure from the mat).
   - Press **RESET** during the monitoring function. The indicator will change from **MON**itor to blinking **HOLD**.
   - Release pressure from the mat. Indicator should change from blinking **HOLD** to solid **HOLD**.

5. Test function for delayed hold period (do not release pressure from the mat during this test).
   - Apply pressure to the Sensormat®. The **HOLD** light should immediately begin blinking.
   - Press **RESET** during the blinking hold. Indicator should change from blinking **HOLD** to **MON**itor reset.
   - Press **RESET**. The indicator should change from **MON**itor to blinking **HOLD**.
   - Count 25 seconds. The indicator should change from blinking **HOLD** to **MON**.

6. Test function for nurse call and alarm if nurse call cord is not plugged-in or nurse call cord is pulled out.
   - Apply pressure to the Sensormat®.
   - Press **RESET** during the blinking hold. Indicator should change from blinking **HOLD** to **MON**itor for instant monitoring.
   - Pull out the nurse call cord. Alarm should sound. Plug nurse call cord back into the unit. Alarm will cease.
   - Press **RESET** to put the unit in **HOLD**.
   - Pull out the nurse call cord. Apply pressure to the mat. The alarm should sound.

Completion of Test

APPENDIX B - PROGRAM REMOVAL APPLICATION

If at any time you want to remove the installed Bed-Check® Model Vr ACCESS® II program, utilize the "Add/Remove Programs" utility located in the Windows® Control Panel.

Click the **REMOVE** button on the Vr ACCESS® II program line to begin program removal. The following dialog box will appear:

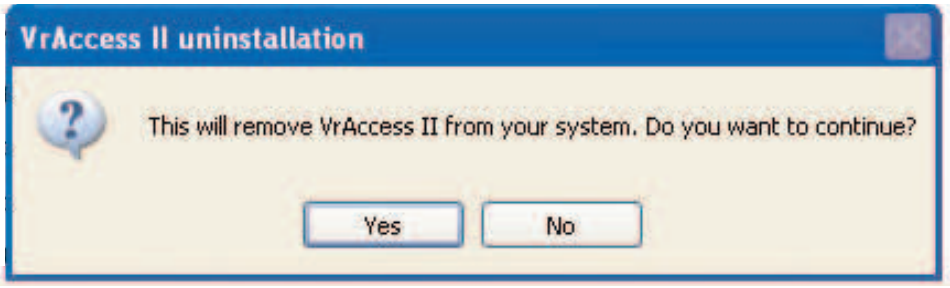

Figure 24

Click **YES** and the following box will appear:

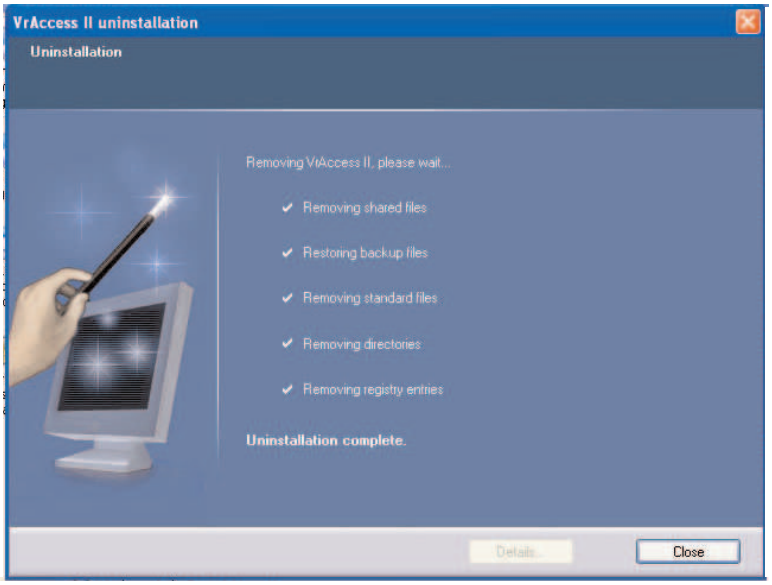

Figure 25

The program is now uninstalled. Click **CLOSE** to exit.

APPENDIX C - PRINTED REPORTS

BED-CHECK® MODEL Vr
PATIENT INFORMATION REPORT

DATE: 4/29/2011

Serial #: VR081073y
MFG. Date: 08/21/2008
Patient ID:

Option Settings:

Tone Option:	Triple Tone	Audible Reset:	On
Relay Option:	Repeat Pulses	Closed System:	Off
Hold Delay:	5	3 Sec. Limit:	Off
Delay Time:	7		
Volume:	0		

Cumulative Time in Service with Patient: 1 hour(s) 51 min
Cumulative Number of Alarms: 13

Last Response Time: 0 min(s) 4 sec(s)
Average of Last Four Responses: 0 min(s) 7 sec(s)

Alarm History (1 = most recent alarm)

	Response Time Min	Response Time Sec	Date/Time Occurred Time	Date/Time Occurred Date		Response Time Min	Response Time Sec	Date/Time Occurred Time	Date/Time Occurred Date
1:	00	04	00:01	1/01/00	13:	00	10	10:41	12/11/08
2:	00	10	11:35	12/11/08	14:				
3:	00	08	11:01	12/11/08	15:				
4:	00	07	11:00	12/11/08	16:				
5:	00	06	10:58	12/11/08	17:				
6:	00	04	10:58	12/11/08	18:				
7:	00	03	10:58	12/11/08	19:				
8:	00	01	10:57	12/11/08	20:				
9:	00	12	10:44	12/11/08	21:				
10:	00	08	10:43	12/11/08	22:				
11:	00	14	10:42	12/11/08	23:				
12:	00	23	10:41	12/11/08	24:				

BED-CHECK® MODEL Vr
UNIT INFORMATION REPORT

DATE: 4/29/2011

Serial #: VR081073y
MFG. Date: 08/21/2008

Option Settings:

Tone Option:	Triple Tone	Audible Reset:	On
Relay Option:	Repeat Pulses	Closed System:	Off
Hold Delay:	5	3 Sec. Limit:	Off
Delay Time:	7		
Volume:	0		

Cumulative Time in Service: 6 hour(s) 51 min
Date of Last Bio-Med Check: 0/0/0000

Last Stanley Security Solutions, Inc. Repair:
Repair / Maintenance Date: 0/0/0000

Repair Maintenance Authorization Number: 00000000

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APPENDIX D - MANUAL PROGRAMMING GUIDE

INTRODUCTION

The Bed-Check® Model Vr offers a variety of features that may be manually programmed. The configuration information is retained in nonvolatile memory within the control unit. The configuration can be changed at any time. The nonvolatile memory is also used to retain statistical data. This data may be accessed using a laptop or desktop computer and special software available from Bed-Check®.

Two methods are available for configuring the Model Vr:

1. Programming through the front panel of the Control Unit; and,
2. Programming with a personal computer (please refer to the section in this manual entitled *Programming The Control Unit*).

Note: Programming the Control Unit through the front panel is not possible if the "**3 SECOND LIMIT"** box is checked. Refer to the section in this manual entitled *Programming The Control Unit* for more information.

Manual programming should only be performed when this program manual is readily available as a guide.

Manually Programmable Features

There are five user selectable features, each offering several options:

1. Alarm tones;
2. Nurse call system relay action - the type of electrical impulse required by the nurse call system;
3. Hold delay - time in seconds that elapses before **MON**itoring occurs;
4. Alarm delay - time in seconds that elapses from the moment the patient's weight is off the Sensormat® to the moment of an alarm; and,
5. Alarm volume

The alarm tone is selected from a list of seven possible options. This allows a facility to choose a tone which is distinctive from other equipment in use around the patient, to use particular tones to prioritize patients relative to a particular patient's risk for fall or to avoid becoming de-sensitized to a particular alarm by changing the tone infrequently.

The Control Unit is shipped from the factory to operate with a normally open nurse call system. This is appropriate for the majority of nurse call systems. The Control Unit may be programmed to operate with a normally closed nurse call system using a personal computer. A particular nurse call system, whether normally open or normally closed, will require either a continuous pulse, a single pulse or repeated pulses to activate the nurse call system. The relay action option allows the Control Unit to be adapted to the particular nurse call installation. An alarm will also sound if there is a bad connection between the nurse call cord and the Control Unit. In addition, the "**No Pull-out Protection**" option may be selected if the Control Unit will not be plugged into a nurse call system.

The **HOLD** delay is factory preset to five seconds. The **HOLD** delay is the period of time that elapses from the moment that the patient's weight is placed upon the Sensormat® and when the Control Unit automatically begins the **MON**itoring mode. Although five seconds will suffice for most facilities, there may be patients for which a different **HOLD** delay will work better, i.e. a particularly active patient may need a shorter delay while a patient who requires a lot of adjusting while being placed in bed may require a longer **HOLD** delay time. It is best to always press **RESET** when leaving the patient as a matter of "good practice", and not depend primarily on the automatic **MON**itoring function.

The alarm volume may be adjusted to balance the needs of alerting the staff to a patient getting out of bed against the needs of nearby patients who may be affected by the alarm. The volume may be adjusted from zero to nine when programming through the front panel or zero to 31 when programmed via a computer. In either case, zero silences the alarm. A nine programmed from the front panel will yield the same volume as a 31 programmed from a personal computer. The only difference in the two methods is the resolution available in arriving at or near an intermediate volume level.

Programming Through The Front Panel

Note: Programming the Control Unit through the front panel is not possible if the "3 SECOND LIMIT" box is checked. Refer to the section in this manual entitled *Programming The Control Unit* for more information.

Programming the Model Vr Control Unit through the front panel should not be attempted until this entire section has been reviewed and you understood. To (re)program any individual feature you must begin at the beginning of the programming process; all of the steps for the entire programming process must be followed.

PROGRAMMING PROCEDURE

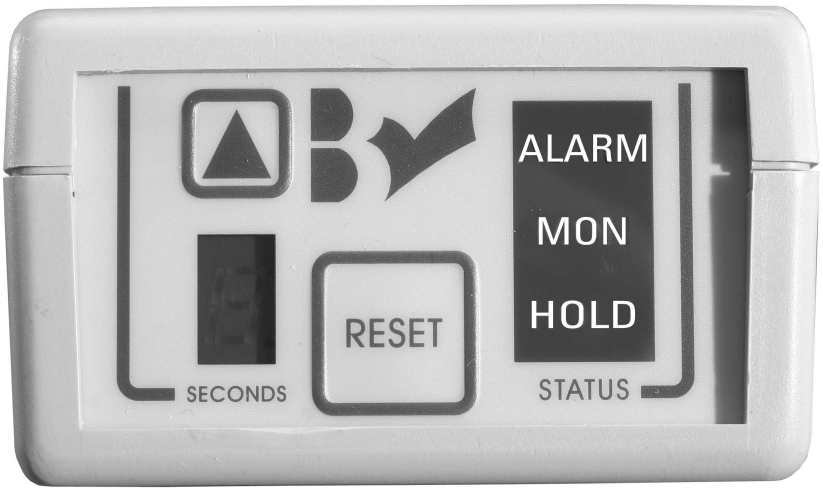

Figure 26

Front panel of the Bed-Check® Model Vr Control Unit

Apply power to the Control Unit. It is not necessary to connect the nurse call cord or to connect a Sensormat®.

1. Use the up arrow button ▲ on the face of the Control Unit to set the digital display to nine seconds.

2. Unplug the power supply from the Control Unit for several seconds.

3. While pressing and holding the **RESET** button on the front panel, apply power to the Control Unit. Release the **RESET** button after all three indicator lights on the right side of the front panel come on.

NOTE: All three indicator lights (**ALARM**, **MON**itoring, **HOLD**) should be lit at this time. If not, start over with step one. (**Figure 27**)

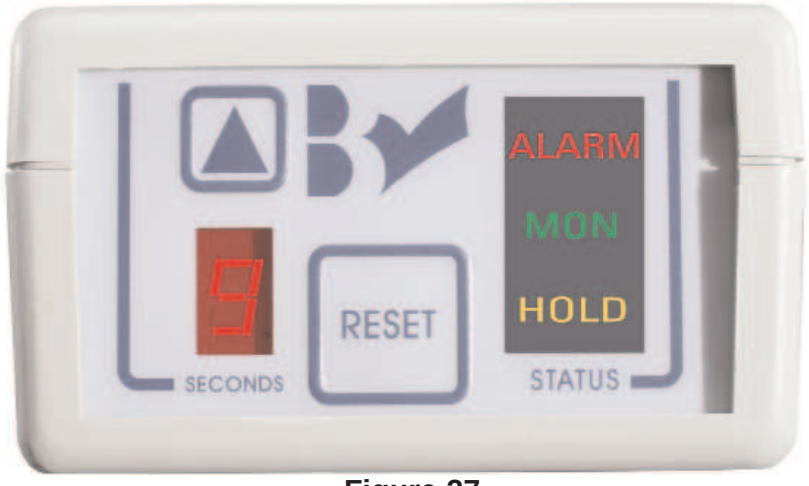

Figure 27

4. You are ready to program the tone option. The numeric display on the left side of the front panel shows the current tone selection. Match the numeric display with the list on the following page. Use the up arrow button ▲ to change the number displayed and choose the desired tone from the list on the following page. Once the appropriate number is displayed, press the **RESET** button, a beep will follow. If you do not wish to change the tone, press **RESET** to skip this step - making no change.

Tones:

0. Fast Beep
1. Medium Beep (Default)
2. Slow Beep
3. Ring
4. Warble
5. Triple Tone
6. Music

The **ALARM** indicator should go out leaving the **MON**itoring and **HOLD** indicators lit. (**Figure 28**)

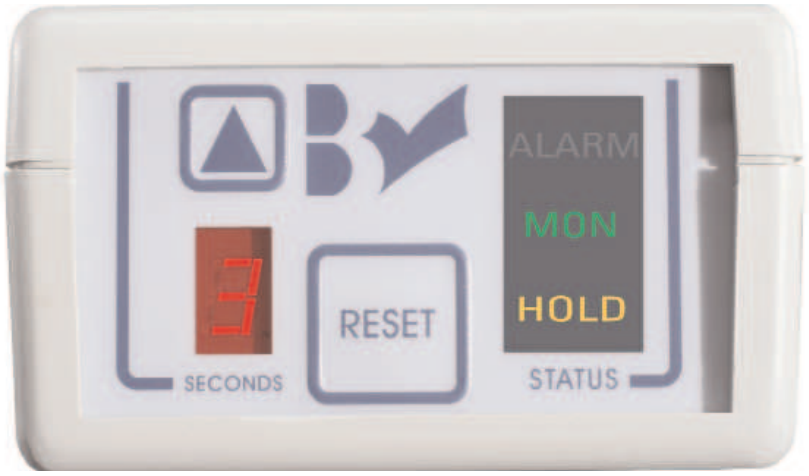

Figure 28

5. To set the appropriate *relay action*, use the up arrow button ▲ on the front panel, select the number for the desired *relay action* from the list below. Press **RESET** when the correct number is displayed, a beep will follow. If you do not want to change the *relay action*, press **RESET** to skip this step - making no change.

Relay Option:

0. Continuous closure (Default)
1. Repeated pulses
2. One shot
3. No pull-out protection (do not use/or no nurse call system)

The **MON**itoring indicator should go out and the **ALARM** and **HOLD** indicators should remain lit. (**Figure 29**)

Figure 29

6. Use the up arrow ▲ to select the desired **HOLD** time. The **HOLD** time is adjustable from 1 to 9 seconds. Programming through a computer provides from 1 to 20 seconds **HOLD** time. This is the time in seconds that will elapse from the moment that the Control Unit senses the patient's weight on the Sensormat® and the unit will automatically begin **MON**itoring. After selecting the desired **HOLD** time, press **RESET**, a beep will follow. If you do not want to change the **HOLD** time, press **RESET** to skip this step - making no change.

   The **HOLD** indicator should go out and the **ALARM** and **MON**itoring indicators should remain lit. The default is 5 seconds. (**Figure 30**)

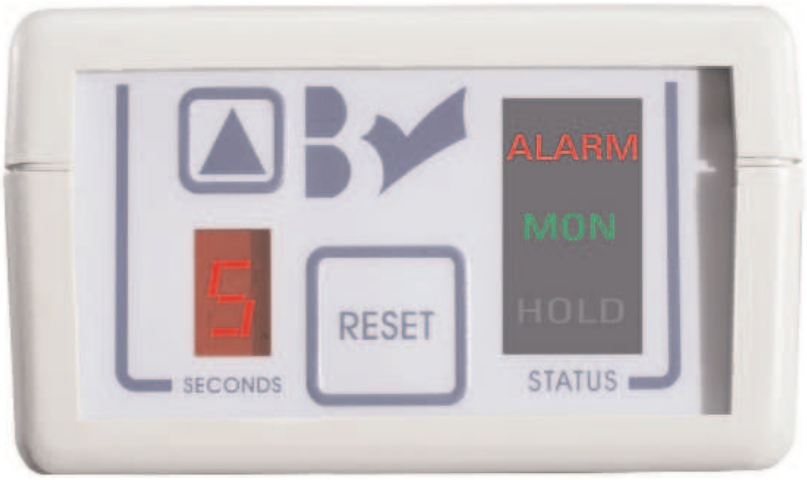

Figure 30

7. Use the up arrow button ▲ to set the desired volume. The volume may be adjusted from zero to nine when programming through the front panel or zero to 31 when programmed via a personal computer. In either case, zero silences the alarm. A nine programmed from the front panel will yield the same volume as a 31 programmed from a personal computer.

   If you have adjusted the volume, press **RESET** to save the new volume and end the programming mode. (Default volume is 20)

8. Adjust the delay setting using the arrow button ▲ to an appropriate seconds value, typically three seconds. This is the time that will elapse from the moment that the patient's weight leaves the Sensormat® and the alarm sounds. The range of options is 1 to 9 seconds. (Default is 3 seconds)

The unit is now programmed.

LIMITED WARRANTY:
BED-CHECK® Model Vr/USB
1. WARRANTOR:
This Limited Warranty is given by Stanley Security Solutions, Inc., 1620 N 20th Cir, Lincoln, NE 68503.

2. DURATION:
This Limited Warranty begins on the date the product is delivered to the purchaser and continues for a period of two years (new units).

3. TO WHOM THIS LIMITED WARRANTY IS GIVEN:
This Limited Warranty is given to the original purchaser of Bed-Check's® products only.

4. PRODUCT COVERED:
This Limited Warranty covers the Bed-Check® Model Vr/USB.

5. WHAT IS COVERED UNDER THIS LIMITED WARRANTY:
Defects in material and workmanship which occur within the defined duration of this limited warranty. Warrantor makes no other warranties expressed or implied, including without limitation, warrantor makes no warranty as to merchantability or fitness for a particular purpose.

6. WHAT IS NOT COVERED UNDER THIS LIMITED WARRANTY:
a) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CONTROL UNITS.
b) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM USE OF THE CONTROL UNITS WITH ANOTHER MANUFACTURER'S PRESSURE SENSITIVE MAT, SENSING DEVICE, OR OTHER FALL PREVENTION PRODUCT.
NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL
OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.
c) Any failure that results from an accident, purchaser's abuse, neglect or failure to operate the Model Vr/USB in accordance with the instructions provided in the owner's manual(s) supplied with the Model Vr/USB.
e) Any Model Vr/USB which has the serial numbers altered, defaced or removed.
f) Any MODEL Vr/USB which has been altered or modified in any way without the express written consent of Stanley Security Solutions, Inc.
g) Any Model Vr/USB which has been repaired other than by Stanley Security Solutions, Inc.

7. RESPONSIBILITIES OF WARRANTOR UNDER THIS LIMITED WARRANTY:
a) In the event of a defect, malfunction, or other failure of the product not caused by any misuse or damage to the product while in the possession of purchaser, the warrantor will remedy the failure or defect without charge to the purchaser within a reasonable time. The remedy will consist of repair or replacement of the product, or refund of the purchase price, at the warrantor's option. If the product is no longer available, warrantor will supply purchaser with a comparable product or refund the purchase price at warrantor's option. However, the warrantor will not elect refund unless it is unable to provide replacement, and repair is not commercially practicable and cannot be made within a reasonable time, or unless the purchaser is willing to accept such refund.
b) If this product or one of its component parts contains a defect or malfunction, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the purchaser will be entitled to either a refund or replacement of the product or its component part or parts. Replacement of a component part includes its free installation.

8. RESPONSIBILITIES OF THE PURCHASER UNDER THIS LIMITED WARRANTY:
a) Disinfect the Model Vr/USB, if necessary, so that it is reasonably free from infectious matter.
b) Package the Model Vr/USB with a minimum of two inches of shock absorbent packaging material. Deliver or ship the Model Vr/USB to Stanley Security Solutions, Inc., 1620 N. 20th Circle, Lincoln, NE 68503. Freight costs, if any, must be borne by the purchaser.
c) Use the Model Vr/USB with reasonable care and in accordance with the supplied owner's manual.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

SOFTWARE LICENSE AGREEMENT FOR BED-CHECK® ACCESS® II

ACCEPTANCE.
CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE OPENING THE PACKAGE CONTAINING THE USER MATERIALS. OPENING THAT PACKAGE INDICATES YOUR ACCEPTANCE OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU ARE NOT WILLING TO ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT, YOU SHOULD RETURN THE ENTIRE PRODUCT, WITH THE SEAL ON THE MEDIA PACKAGE UNBROKEN, TO THE PLACE FROM WHICH IT WAS OBTAINED FOR A REFUND OF ANY AMOUNTS YOU HAVE PAID TO OBTAIN THIS PRODUCT.

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LIMITED WARRANTY.
Licensor warrants, for your benefit alone, for a period of 90 days from the date of commencement of this License Agreement (referred to as the "Warranty Period") that the User Materials in which the Software is contained are free from defects in material and workmanship.

Licensor further warrants, for your benefit alone, that during the Warranty Period the Program shall operate substantially in accordance with the functional specifications in the User's Manual. If during the Warranty Period, a defect in the Program appears, you may return the Program to Licensor for either replacement or, if so elected by Licensor, refund of amounts paid by you under this License Agreement. You agree that the foregoing constitutes your sole and exclusive remedy for breach by Licensor of any warranties made under this Agreement.

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The non-disclosure provisions of this section shall continue beyond the term of the contract and shall be binding and enforceable even after termination of this Agreement.

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This License Agreement shall be construed and governed in accordance with the laws of the State of Indiana, without regard to the choice of law provisions of that state, and all actions, regardless of the form or nature of such, to enforce this license or for the breach of same shall be brought within one (1) year from the occurrence of the grounds for such action in either state or federal court in Indianapolis, Indiana.

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If any action is brought by either party to this License Agreement against the other party regarding the subject matter hereof, the prevailing party shall be entitled to recover, in addition to any other relief granted, reasonable attorney fees and expenses of litigation.

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Should any term of this License Agreement be declared void or unenforceable by any court of competent jurisdiction, such declaration shall have no effect on the remaining terms hereof.

NO WAIVER.
The failure of either party to enforce any rights granted hereunder or to take action against the other party in the event of any breach hereunder shall not be deemed a waiver by that party as to subsequent enforcement of rights or subsequent actions in the event of future breaches.

Mailing Address: PO Box 80238
Lincoln, NE 68501-0238

Shipping Address: 1620 N 20th Circle
Lincoln, NE 68503-1103

1-800-523-7956
www.bedcheck.com

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